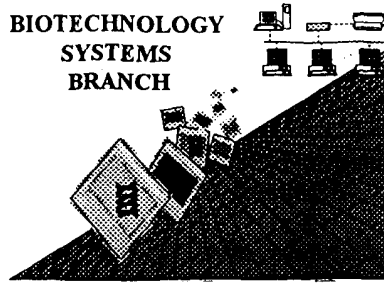


GW

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BIOTECHNOLOGY
SYSTEMS
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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/016,349
Source: OIP
Date Processed by STIC: 1/3/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. **Hand Carry** directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

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OIPE

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/10/016,349

TIME: 13:34:46

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J016349.raw

pp 1-3

Does Not Comply
Corrected Diskette Needed

5 <110> APPLICANT: Recipon, Herve
 7 Sun, Yongming
 9 Chen, Sei-Yu
 11 Liu, Chenghua
 13 Turner, Leah
 17 <120> TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific
 19 Genes and Proteins
 23 <130> FILE REFERENCE: DEX-0243
 27 <140> CURRENT APPLICATION NUMBER: US/10/016,349
 29 <141> CURRENT FILING DATE: 2001-10-26
 33 <150> PRIOR APPLICATION NUMBER: 60/243,259
 35 <151> PRIOR FILING DATE: 2000-10-26
 39 <160> NUMBER OF SEQ ID NOS: 244
 43 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

241 <210> SEQ ID NO: 3
 243 <211> LENGTH: 439
 245 <212> TYPE: DNA
 247 <213> ORGANISM: Homo sapiens
 251 <400> SEQUENCE: 3
 253 tagggcacat ctcaggttta tcagagaaca tcaatataat ggcttttttaa tgacattttt 60
 E--> 255 gtttcttact gaaatagggg caattttaaag aataaaagan agnnnaacca tagtaattct 120
 257 actaaccaga ggttactatt gataatgcct ttttgtgtat atcctgtatt tgttttccta 180
 259 tttacaacac atcatctata atgtgtgtatt tatagccttt taatttaata gaactaagat 240
 261 tgtactgagc atagtatcga ttaccctgcc tttttcactg caatgtctcc cacccttcaa 300
 263 agggcccccac tggcaaccag tctgtgttgg ctttcaggcg gagaaggcat atctggggca 360
 265 cttgatatgc acttgcaacta ccactggttc ccagttttct atgaggtatc tatatcagat 420
 267 catggcctaaa atgagtggg 439
 831 <210> SEQ ID NO: 15
 833 <211> LENGTH: 562
 835 <212> TYPE: DNA
 837 <213> ORGANISM: Homo sapiens
 841 <400> SEQUENCE: 15
 E--> 843 cccattccat ttttcagatt tttttttttt attatgtagt atcccctgga tataatcttt 60
 845 ttggtgaagg gggatgtctc taatttccac gtggtacccc ctgtcatata caggttatgt 120
 847 atctggcagt ctacagctgc aattcatggc tgtttataaa atttcaccag aacttgcct 180
 849 gacgtccctt tacttttga aatgattaga aaaaatgctg agcctgagta tgtatttttg 240
 851 tattaagagt tcatttagag agtcccagaa attggcagag ttgattcaac tttctgtggt 300
 853 ttaaatttga atatgcaatt agtagactgc tggattttca gaagtgtgtt gttgcaggcc 360
 855 tcttgtactg aggaggaaat ctggaatttc tttttctatt ttaaattagc gttcattcaa 420
 857 caaacatttt ttgattatcc ctagagtttt ggcacacgat aggaagtcta gaagtgtgca 480
 859 gtctcacctg gtctcgcaag taatgggaat ttttaacta tgcaggactt agaaggtata 540
 861 ccttcccttc cttcagaatg at 562
 927 <210> SEQ ID NO: 17

see
item 9
on Euro
summary
sheet

item 9

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/10/016,349

TIME: 13:34:46

Input Set : A:\ES.txt

Output Set : N:\CRF3\01032002\J016349.raw

929 <211> LENGTH: 665

931 <212> TYPE: DNA

933 <213> ORGANISM: Homo sapiens

937 <400> SEQUENCE: 17

939 cacttacatc aacttcataa atgcagccaa tttacaataa acattcccct tgcaaccct 60
 941 cctccccac ccacctcact ctacctgaaa agatggctaa ttatgttagg gccttggtga 120
 943 ttcatttatt tgttgtaaaa acccggcggg gtgtagctc tgaaatggg aaaaggctct 180
 945 gagggcgagg ccttggtgtg gaggggctgg aggttttgtg tgtgaagggg ggtagcctgc 240
 947 tggctctggag cacgctgata agatgctctt cttttcacag ggctctcctt agattcaaag 300
 949 actaaaaggg ctgactgaat cagaaaaaca aacagacttt cttttttcta taggcaaaga 360
 951 aagaaatgaa tgtgtaggca ttatacagac acaagacccc ggtaccagt ggtatttgag 420
 953 tcaaagggtt cttttgttag tatttagcca ttcactggga aagcacactt ccagcgcggg 480
 955 gacctgggta ccattgagtga ctttgtgata tcatcctggc tttagcctaaa tgggaagtct 540
 957 aattaatgct ttttataaga ttttgtgatg ttaagcttca accttgcaat tcatattagt 600

E--> 959 ttgttcattt tgatgnaaga attggcagat tttagggtata tgatgcagtt tgattttagt 660 *Item 9*
 961 ctaga 665

2987 <210> SEQ ID NO: 64

2989 <211> LENGTH: 311

2991 <212> TYPE: DNA

2993 <213> ORGANISM: Homo sapiens

2997 <400> SEQUENCE: 64

2999 gccaccgtgc ctggccaaaa aaaacacatg ttttatagtt gagtatggtt ctagtatttc 60
 3001 ttcatggcag agccctggag aaccgcgagg ggaacagttg agggaaatga agaaggactc 120
 3003 ttgattcttg cacttaactc ctgtgtttac taagtttgtt atagctggat tttttttttt 180
 E--> 3005 tttgggcttc ctagaagcag gagagggcag agataggggc agacttgact tagcaaggct 240 *Item 9*
 3007 ttaactgtta acatttttca gccagagag ctgccttgct ctctaaaaca gttacttgct 300
 3009 ctgggttcaact c 311

3415 <210> SEQ ID NO: 72

3417 <211> LENGTH: 296

3419 <212> TYPE: DNA

3421 <213> ORGANISM: Homo sapiens

3425 <400> SEQUENCE: 72

3427 ctggattccc tcagacacat atttcccctc tcaactaaact tttatgaaga ttttttatta 60
 3429 aatctgtatt aaaggtttac ttcccttatga tgaagtaaatt gttcacagtt ggaccttatg 120
 E--> 3431 gagtattaag attacatttt atttcttgta acatttttgt ttgctgtttt tttcatttgc 180 *Item 9*
 3433 ttcttatctg tgttcacata acaaattctg tgtcatagct gtttacacta tggtcagaca 240
 3435 gatcagggtga ttgctcagtt ccatttttct cttggagact tcttttaaaa cctgtg 296

3541 <210> SEQ ID NO: 74

3543 <211> LENGTH: 330

3545 <212> TYPE: DNA

3547 <213> ORGANISM: Homo sapiens

3551 <400> SEQUENCE: 74

3553 ctgtgaaagt aaggtaatgt tgaacaagta aattaatatt ttctctcctg gattctgatg 60
 3555 tttcatttgc tttcctgctt cccattttcc ttatagttat tggactttct ttggagatgg 120
 3557 agttccagca gttgggaatg taatattctc ttatggataa agtagattaa aagtttaaat 180
 3559 taaataacgc tgttaaatgt tgttactttc ctttgtgtac agtagtagta gtatactttg 240
 E--> 3561 annagttgag ttccataggg ttaacttttg ttgtaaaact gaactaacta taagggacta 300 *Item 9*
 E--> 3563 ttgaaatgtn agcttgtgg cagaaagtac 330

4159 <210> SEQ ID NO: 89

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/10/016,349

TIME: 13:34:46

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J016349.raw

4161 <211> LENGTH: 125

4163 <212> TYPE: DNA

4165 <213> ORGANISM: Homo sapiens

4169 <400> SEQUENCE: 89

4171 gacaatttat aattcaaagg gaagcagaac ataaagattt ggacatttct tgggccagcc 60

E--> 4173 atgtaaagaa tgaaaaagat ttggacaatt ttcagtcag ccatgtaaag gntaaaaaag 120

4175 tatgt

125

Dem 9

ps I →

Listing
J016349.raw
1/3/02

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/016,349

DATE: 01/03/2002

TIME: 13:34:48

Input Set : A:\ES.txt

Output Set : N:\CRF3\01032002\J016349.raw

L:27 M:270 C: Current Application Number differs, Replaced Application Number
L:29 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:255 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3 ✓
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:843 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15 ✓
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:959 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17 ✓
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:2145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:2335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:2659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2707 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58

VERIFICATION SUMMARY

DATE: 01/03/2002

PATENT APPLICATION: US/10/016,349

TIME: 13:34:48

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J016349.raw

L:2967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:3005 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:3277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:3431 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72
L:3561 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
M:340 Repeated in SeqNo=74
L:4173 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:89
L:6295 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:139
L:6301 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:139
L:6451 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:143
L:6457 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:143
L:6597 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:146
L:6703 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6721 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6727 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148
L:6799 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:150
L:7431 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:168
L:7437 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:168
L:7605 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:173
L:7707 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:174
L:7895 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:179
L:7907 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:179
L:7943 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7949 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7955 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:7961 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:180
L:8171 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:185
L:8291 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:188
L:8309 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:188
L:8377 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:190
L:8383 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:190
L:8449 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:192
L:8495 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:193
L:8841 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:203
L:8847 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:203
L:8881 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:204
L:8971 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:206
L:9031 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:207
L:9127 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:209
L:9269 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:213
L:9399 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:217
L:9889 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:229
L:9907 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:229
L:10373 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

VERIFICATION SUMMARY

DATE: 01/03/2002

PATENT APPLICATION: US/10/016,349

TIME: 13:34:48

Input Set : A:\ES.txt

Output Set: N:\CRF3\01032002\J016349.raw

L:10379 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

L:10385 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:241

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/016,349

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.